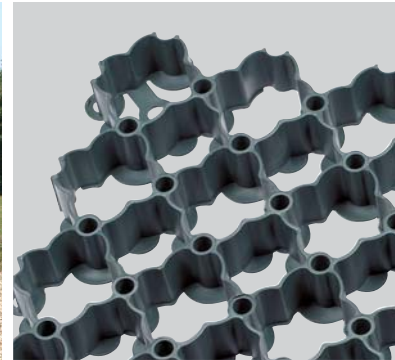


Uniclass L814	EPIC Q11		
CI/StB (90.41)	X		



*Smart surfacing and easy edging*

**ACO GroundGuard and ACO BorderGuard**

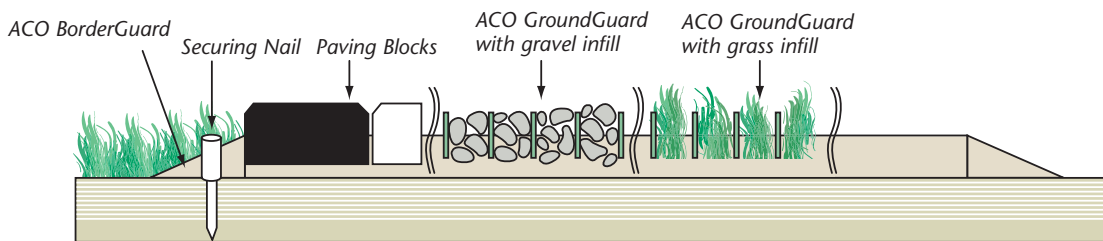
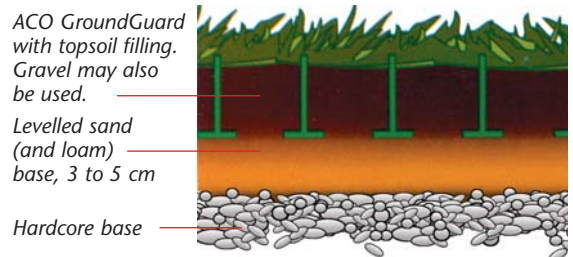
# ACO GroundGuard

ACO, long-time industry leader in surface drainage, brings you ACO GroundGuard, the natural surfacing solution.

ACO GroundGuard grass reinforcement gives you the strength of man-made materials with the good looks of a lawn. Easily and quickly installed, this system helps eliminate the risks of pot holes, rutting or grass damage. If you wish, ACO GroundGuard can be filled with gravel or any loose material, or can be seeded to give a grassed finish. However, grass roots will bind ACO GroundGuard to the soil for the strongest possible surface.

A bonus of ACO GroundGuard is improved drainage. ACO GroundGuard reduces the rate of surface water run-off, saving drainage installation costs. Eliminating the need for point gullies could pay back the cost of ACO GroundGuard for an average drive!

ACO GroundGuard is TOUGH. Correctly fitted, ACO GroundGuard has been certified to 250 tonnes per square metre, more than enough for almost any application. If you are replacing an existing drive, you can cut costs and effort by laying ACO GroundGuard over your existing base.



# ACO GroundGuard

## Why choose ACO GroundGuard?

- ▶ Easy to handle; simple clip-together fixings
- ▶ Super lightweight - just 1kg per piece
- ▶ Tough enough for regular parking use
- ▶ 100% recycled
- ▶ Suitable for gradients up to 5% or steeper when pegged
- ▶ Full range of accessories available, including lawn edging and marking blocks for car parks
- ▶ Eliminates gravel migration and raking
- ▶ Cost effective - competitive with asphalt or paving slabs
- ▶ Easily cut to shape for irregular edging
- ▶ Very high grassed area, much greater than concrete alternatives, maximises surface drainage
- ▶ Easy to transport - easy to stack



# ACO GroundGuard

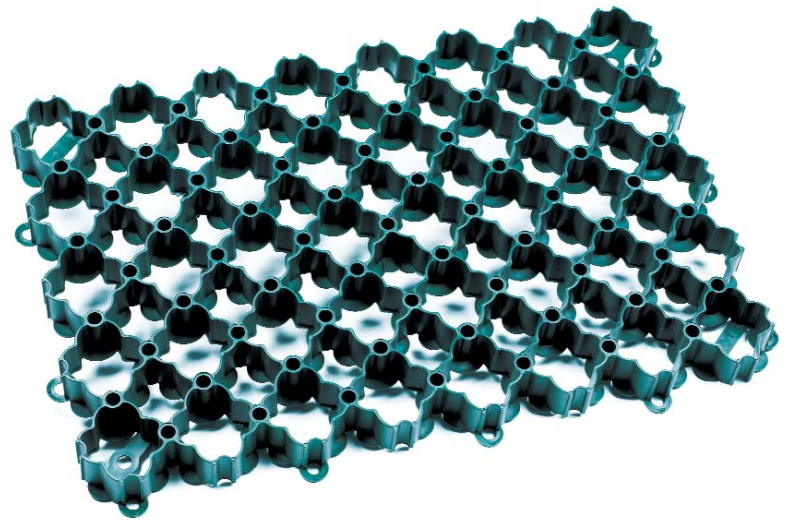


## Applications:

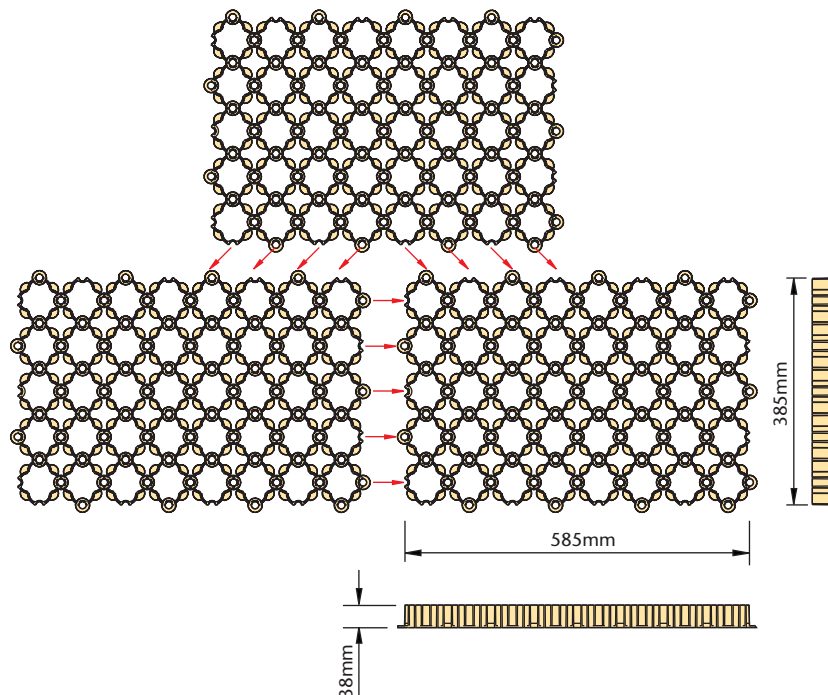
- ▶ Commercial and overflow parking
- ▶ Paths
- ▶ Drives
- ▶ Caravan parks
- ▶ Stables - tough enough for horseshoes and 4x4s
- ▶ Allows parking on your front lawn
- ▶ Road edging
- ▶ Bridleways
- ▶ Emergency access routes
- ▶ Canal towpaths
- ▶ Bank stabilisation
- ▶ Helipads
- ▶ Anywhere rutted grass or gravel is a problem

## Specifications:

- ▶ 585 x 385 x 38mm
- ▶ 4.42 sheets per square metre
- ▶ 88 sheets per pallet
- ▶ 19.8 square metres per pallet



Description	Order No.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
ACO GroundGuard	81070	585	385	38	1.0
Parking space markers	81072	-	-	-	0.1



\* Correct installation pattern

# ACO GroundGuard

## ACO GroundGuard Installation Instructions

1. Mark out the area to be covered with ACO GroundGuard.
2. Depending on soil conditions and intended use of the ACO GroundGuard area, dig out the existing base. E.g. for light vehicle traffic/ parking areas, 20-30 cm will suffice. With heavy wheel loads or a clay soil, 40cm may be necessary.

**NB.** Seek engineering advice where appropriate, taking account of the California Bearing Ratio (CBR) of the soil, anticipated wheel loads and other factors such as groundwater levels.

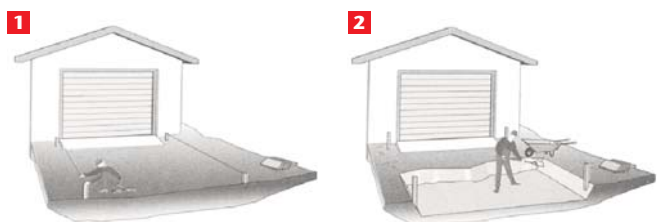
3. If using concrete edging pieces, install them next. If using ACO BorderGuard, install these between steps 7) and 8).
4. Compact the sub-base using a plate compactor.
5. Fill the excavated area with gravel/ crushed stone to 8cm below the finished level. Tamp down with a roller or plate compactor.
6. Level the area with a 4cm layer of sand. For best grass growth we recommend using a sieved sand/compost/loam mix. Level using a rail or wooden batten.
7. Start installing the ACO GroundGuard tiles along the length of the area first. Then assemble ACO GroundGuard laterally. Attach each piece by raising the edges of its neighbours slightly and simply interlocking the fastening clips. If using ACO BorderGuard to edge the area, install it at this stage.

**For best performance the tiles should laid in a staggered pattern rather than a grid pattern. Please refer to the diagram opposite\*.**

8. Fill in the ACO GroundGuard tiles with a loam/sand/lawn seed mix. For highly trafficked areas we recommend using a lawn seed suitable for parking use. If you wish, gravel can also be used.

**NB:** These guidelines are subject to site conditions and traffic requirement and are for guidance only. If you have any questions regarding this matter please consult a qualified Engineer.

9. Water the area to settle the surface and encourage lawn growth. The substrate surface should come up to approx 5mm from the top of the ACO GroundGuard cells. This is to protect the blades of grass whilst allowing room for the root system to interlock with the ACO GroundGuard, binding it firmly to the soil.



# ACO BorderGuard

**Perfect border edging every time.**

Whether you're edging your patio, garden path, or an ACO GroundGuard - reinforced parking area, ACO BorderGuard gives you a perfect, aesthetically pleasing finish. ACO BorderGuard prevents your slabs and block pavements from moving due to frost, vehicle or pedestrian movement.

Manufactured from 100% recycled materials, ACO BorderGuard is light and easy to work with, offering rapid and simple installation.

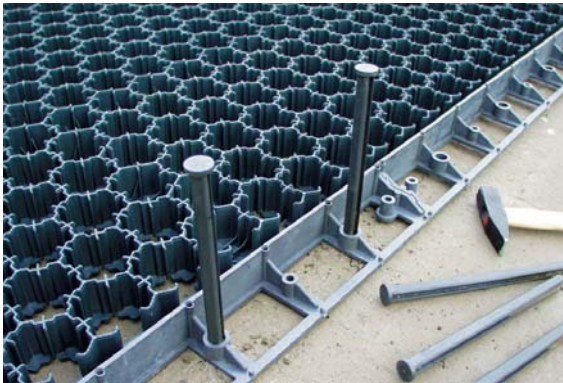
Once installed, the slim vertical edge is virtually invisible as it is hidden by soil or lawn. So you can use ACO BorderGuard with any choice of ground covering, whether it's lawn, flowerbed, or bark chips.

Thanks to its flexibility, ACO BorderGuard can be used for straight lines, curves or even 90-degree bends.

Installation is far faster than with concrete haunching, and unlike traditional methods, allows you to grow grass or bedding plants right to the edge of your paving, making the most of your garden and eliminating unsightly concrete.

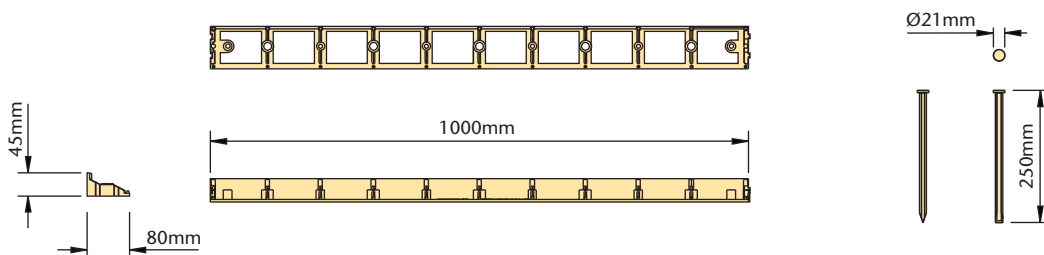
## Installation:

ACO BorderGuard should be laid on the same bed of sharp sand or fine gravel as the pavements. For light or ordinary soils, ACO synthetic nails should be used at a rate of 3 per metre. For hard, heavy soils we recommend using ordinary steel nails, ideally 250mm (10 inches) long.



## Why use ACO BorderGuard?

- ▶ Simple, quick installation
- ▶ 100% recycled
- ▶ Professional, unobtrusive finish
- ▶ Light weight (less than 400 grams per metre)
- ▶ Easily cut to size
- ▶ Easily edges corners and curves
- ▶ Compatible with paving slabs, block paving and ACO GroundGuard grass reinforcement

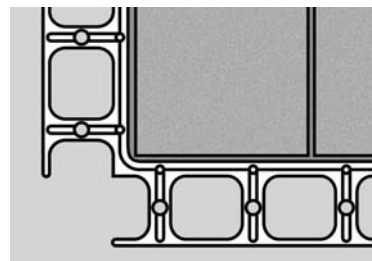
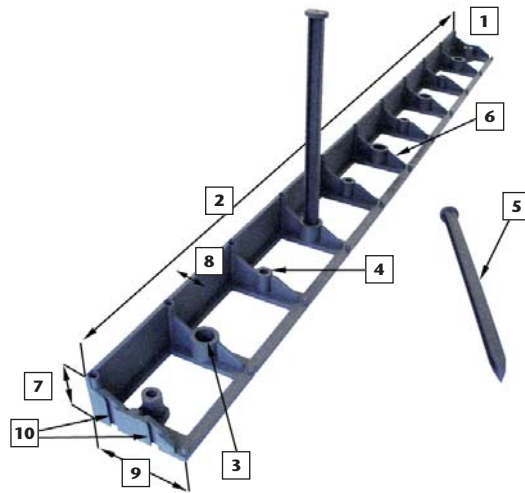


# ACO BorderGuard

Perfect border edging every time.

## ACO BorderGuard characteristics:

1. ACO BorderGuard is manufactured from recycled composite material
2. One metre length
3. Five 16mm diameter fixing holes per length, for ACO Synthetic Nails (available separately)
4. Six 8mm diameter fixing holes for ordinary steel nails (available from your builders merchant)
5. Synthetic H-Section Nails for maximum stability
6. Lateral reinforcement buttressing for greater strength
7. 45mm height
8. 5mm thickness
9. 80mm depth
10. Dovetails for easy extension



Description	Order No.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
ACO BorderGuard	81100	1000	80	45	0.4 kg
Synthetic Nails	81110	-	-	-	0.1 kg



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ACO has always placed a great deal of importance in training Architect, Engineers, Merchants and Stockists in how best to use and select ACO products.

### Courses Available.

Our training organisation, ACO Academy, offers a number of courses to assist in development of drainage knowledge and the use of ACO products.

Call 01462 810204 for more information.



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